

Claims

1. Spindle (1) in which the moving part (2) fixed to  
5 the tool-holding collet (3) is supported by one or more  
aerostatic bushes (4) on cushions of air generated by a  
jet of compressed air that circulates continuously  
along the air gaps (5) between the aerostatic bushes  
10 (4) and the said moving part (2) and passes out of the  
spindle (1) through the same co-axial aperture (6)  
formed in a flange (7) as that through which the  
abovementioned tool-holding collet (3) projects from  
the said spindle (1), the said spindle being  
15 characterized in that directing means (8) are attached  
to the outside of the said flange (7) to collect the  
air passing out of the abovementioned aperture (6) and  
cause it to adopt an outward direction of motion (E)  
that is tangential to or incident on the terminal part  
20 (3t) of the tool-holding collet (3) and roughly  
parallel to the axis of the said spindle (1).

2. Spindle according to Claim 1, in which the said  
directing means take the form of a shaped cap (8) fixed  
to the outside of the said flange (7), co-axially with  
25 respect to the tool-holding collet (3) in such a way as  
to leave at least part of the said collet on the  
outside.